

## Patent

Customer No.: 31561  
Docket No. 12338-US-PA  
Application No.: 10/708,208

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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OCT 11 2004

In re application of  
Applicant : Chen  
Application No. : 10/708,208  
Filed : 2004/2/17  
For : CARD CONNECTOR  
Art Unit : 2839  
Examiner : DINH, PHUONG K

TRANSMITTAL LETTER

002-1-703-872-9306

(Via fax: 5 pages)

Assistant Commissioner for Patents  
Arlington, Virginia 22202

Dear Sir,

In response to the Office Action dated September 21, 2004, transmitted herewith is the *Amendment and Response to Office Action*, in 4 pages, in response to paper No. 0904.

I believe that no fee is incurred. However, the Commissioner is authorized to charge any fees required in connection with the filing of this paper to account No. 50-2620 (Order No.: 12338-US-PA)

Thank you for your assistance in the subject matter. If you have any questions, please feel free to contact me.

Respectfully Submitted,  
JIANQ CHYUN Intellectual Property Office

Date:

Oct. 11, 2004

By:

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Application No.: 10,708,208  
Docket No.: 12338-US-PA

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application	)
Application No.: 10/708,208	)
Filed: February 17, 2004	)
For: Card Connector	)
	)
Applicant: Sheng-Guo Chen	)
Examiner: Dinh, Phuong K.	)
Art Unit 2839	)
	)

No fee is believed to be due. However, the Commissioner is authorized to charge any fees required in connection with the filing of this paper to account No. 50-2620 (Order No.: 12338-US-PA)

AMENDMENT AND RESPONSE TO OFFICE ACTION

U.S. Patent and Trademark Office  
Commissioner for Patents  
220 20th Street South  
Customer Window, Mail Stop Amendment  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, Virginia 22202

Dear Sir:

The Office Action mailed on September 21, 2004 has been carefully considered. In response thereto, please enter the following amendments and consider the following remarks.

Customer No.: 31561  
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### Amendment

Please amend the specification as indicated hereafter.

[0019] Fig. 1 is a perspective view of a card connector according to one preferred embodiment of present invention. Fig. 2 is a cross-sectional view of a card connector according to one preferred embodiment of present invention. In Fig. 2, the connector socket 210 in Fig. 1 is not shown. As shown in Figs. 1 and 2, the card connector of present invention comprises a guiding frame 200, a connector socket 210, a first isolation film 220 and a conductive film 230. The guiding frame 200 is set on a first surface 102a of the circuit board 100 for guiding and accommodating a card 300. The guiding frame 200 is fabricated using a conductive material such as a metal. Furthermore, each side of the guiding frame 200 has a grounding washer 204. The grounding washer 204 can be integrally formed with the guiding frame 200. By using the grounding washers 204 and the conductive screws 202, the guiding frame 200 is fastened to the circuit board 100. In addition, the grounding washers 204 also contact the grounding pads 114 on the circuit board 100, so that electrostatic charges on the guiding frame 200 can be discharged from the grounding washers 204 to the grounding terminal of the circuit board 100. Hence, aside from protecting the card 300, electrostatic charges can be transferred from the card 300 to the grounding terminal of the circuit board 100 via the two grounding washers 204 when the card 300 is in contact with the guiding frame 200 of the card connector. The connector socket 210 is set on the first surface 102a of the circuit board 100 such that the connector socket 210 is electrically and structurally connected to one end of the card 300. Therefore, the connector

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socket 210 also serves as a signal transmission media between the card 300 and the circuit board  
100.

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